

DOUBLE MITER SAW IM-300 P



**!!! For your safety In order to obtain
higher performance of your equipment !!!**
Read the instructions manual carefully

[Http://www.inmes.com.br](http://www.inmes.com.br)



1- INTRODUCTION

Congratulations on your purchase of the IM-300P Master Miter Saw. It incorporates the most advanced technology in cutting moulding profiles, acquired during years of designing machines for the picture framing and furniture industry, sold all over the world.

We have developed this Operations Manual to help you install and use your machine correctly, in order to obtain the maximum benefits of economy and output. Read it carefully and call INMES Technical Assistance to answer any questions you may have about your equipment and its operation.

Your IM-300P Master Miter Saw was designed to make high-quality cuts of wood or plastic. Each of these materials requires the proper saw blade.

Remember, before turning your saw on be sure to read this manual for important information.

We hope that with this machine your business will become more productive while you work safely.

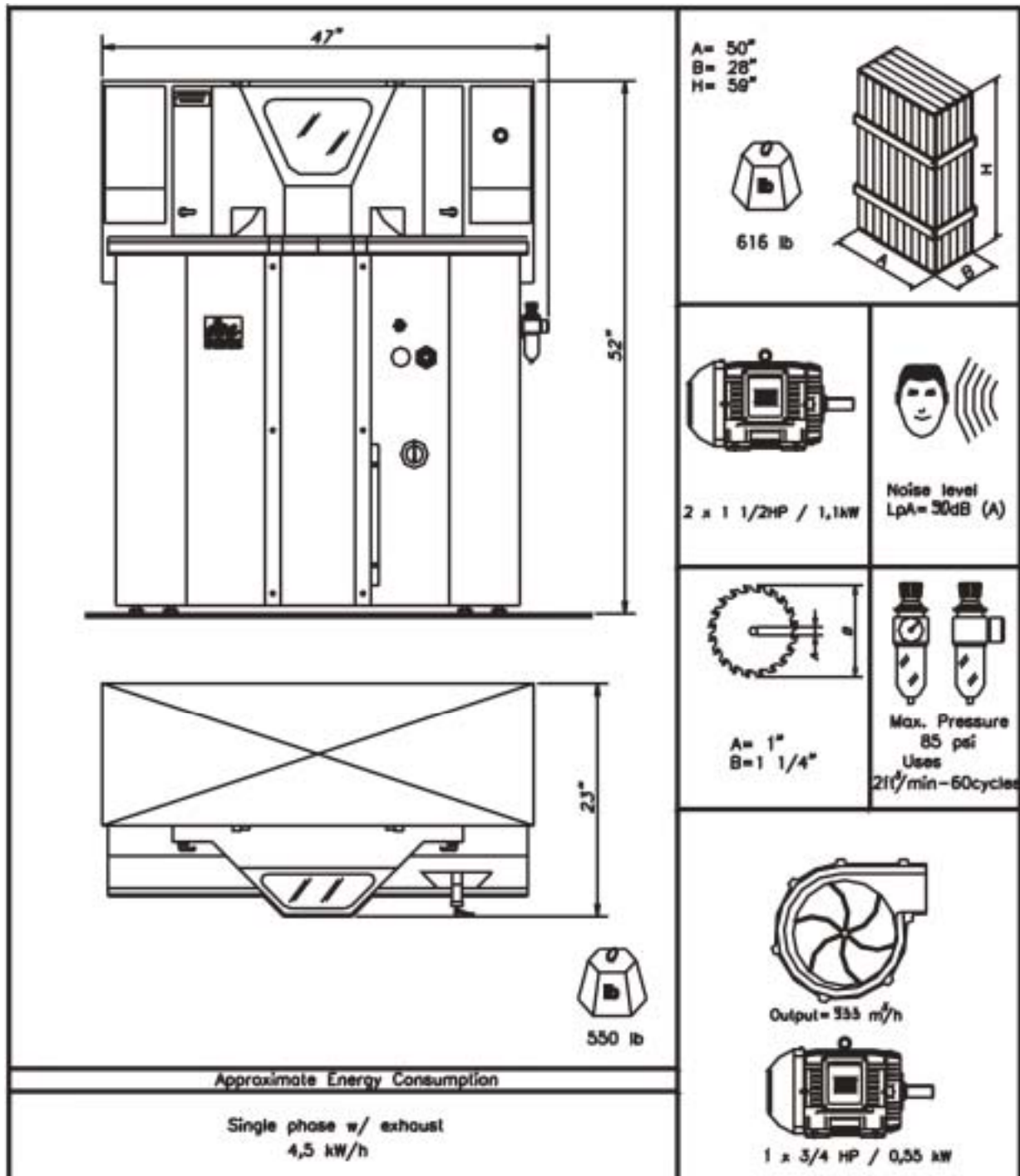
2- SPECIFICATIONS

- Weight _____ 550 lbs.
- Height _____ 52 in.
- Width _____ 48 in.
- Depth _____ 24 in.
- Maximum dimensions of moulding saw can cut _____ See graph on page 4
- Saw motors power _____ 1 1/2 hp
- Exhaust motor (optional) power _____ 3/4 hp
- Light bulb strength _____ 60-watts (Maximum!)
- Saw blade diameter _____ 12 in. x 1 in.
- Bearings _____
 - Ball bearings = 6204 2RS1 (2) and 6205 2RS1 (2)
 - Conical bearings = 30204 (4)
- Belts _____ Z 900 GOODYEAR
- Calibrated table length _____ 20 1/2 in. (Optional extensions of 47 and 23 in.)

3- OPTIONAL ACCESSORIES

- Dust collector unit
- Extension tables

TECHNICAL DIAGRAMS OF THE IM300P MASTER DOUBLE MITER SAW



4- COMPRESSED AIR SYSTEM

To operate your Saw, you need an air compressor with a minimum output of 10 cubic feet/minute. It can be installed using a compressor with a greater output, but not smaller.

The operating pressure should be no more than 88 psi (6 bar).

5- ELECTRIC FEED

The electric line should be two-phase 220-volt, 60-hz. The light bulb under the hood should be no more than 60-watts, 110-volt.

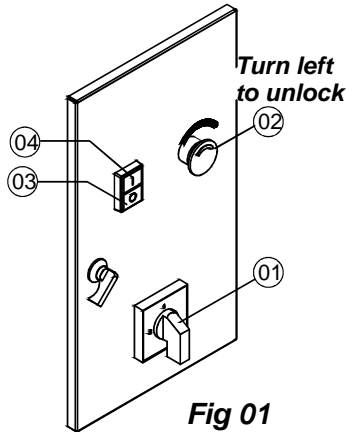


Fig 01

6- ON "I" AND OFF "O" SWITCHES, SAFETY CONTROLS

There is a switch on the lower front of the Saw (Fig. 01 Part 01). This switch, which has two positions, "O" for OFF and "I" for ON, should be left in the "O" position whenever the Saw is not being operated. In the "O" position the current is turned off to the entire machine, allowing an electrician to perform maintenance in safety, if necessary. Only this switch's terminals to the electric feed will be "live". When you are ready to use the Saw, turn this switch to the "I" position.

There is a **RED EMERGENCY STOP** button on the control panel (Fig. 01 Part 02). If a problem arises during operation that requires immediate action, pushing this button will instantly cut off the electric current to the saw blade motors. After the problem has been resolved, in order to turn the machine back on, turn the emergency button to the left and push the "I" button (Fig. 01 Part 04).

To turn on the saw motors and the dust collector push the green "I" button (Fig. 01 Part 04), and to turn off push the red "O" button (Fig. 01 Part 03).

7- OPERATION

Adjustments should be made with the machine turned off for safety purposes.

First select the type of moulding to be used. Adjust the moulding hold-down clamp according to the moulding's height. The hold-down clamp can be adjusted as shown in Fig. 02. The hold-downs (Fig. 02 Part 02) should be set in a preset position no more than 3/8" above the moulding. This adjustment is made using the handles (Fig. 02 Part 04), which secure the hold-down clamps. It is important that both hold-downs be set at the same height, so that they exert equal pressure on the moulding when they descend. Your Saw comes with the hold-downs adjusted to release the moulding after it is cut. Then they return to their original positions.

It is possible to adjust the moment of hold-down release, so that it raises and frees the moulding at the moment that the blade clears the top of the moulding. This allows the operator to move ahead the stick that is being cut, to be ready for the next cut, before the blade has returned all the way to the top of its swing, so it may descend immediately once you have stepped on the pedal.

This allows greater productivity in a high volume environment. The lower the profile, the quicker the hold-down is freed.

To make this adjustment, proceed as in Fig. 03. Adjust the height of the stop (Fig. 03 Part 02) using the adjusting screw (Fig. 03 Part 03). The higher the stop, the quicker the hold-down will release, since when it strikes the sensor (Fig. 03 Part 01) it will immediately free the hold-down clamp.

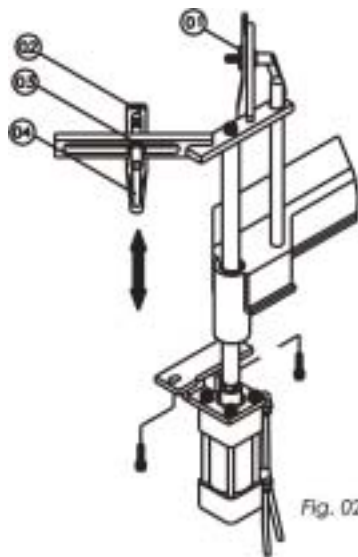


Fig. 02

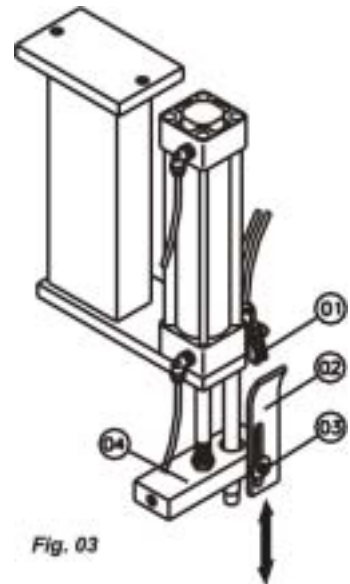
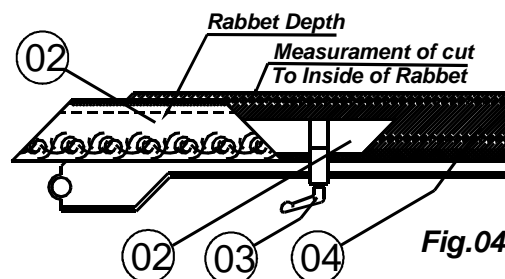


Fig. 03

Next determine the size frame to be cut. The moulding stop on the right (Fig. 04 Part 02), which determines the length of the stick cut, is adjusted as shown in Fig. 04, using the handle (Fig. 04 Part 03) of the stop, which runs on the calibrated table (Fig. 04 Part 04). The stop can be used on the left side of the Saw as well as the right side.

Turning on the Saw by using the green "ON" button (Fig. 01 Part 04), step on the pedal to cut a small piece to create the base for the cuts to follow. Hold the pedal down until the cut is made completely, and then release it for the blade to return to its original position. The calibrated rule on the table is divided in 1/8" increments, in distinctive colors to facilitate measurements. Move the stick (Fig. 04 Part 01) to the right until the corner on the inside of the rabbet reaches the value on the calibrated rule (Fig. 04 Part 04) equal to the length desired. Then move the stop (Fig. 04 Part 02) until it rests against the end of the moulding, and lock it in place with the handle (Fig. 04 Part 03). **The optional extension table accessory allows you to cut sides up to 7-1/2 feet long.**

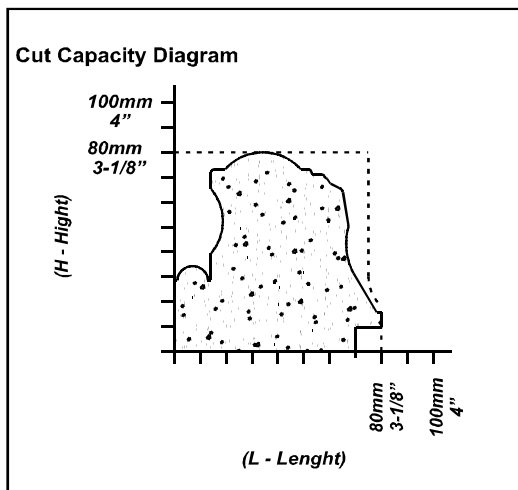


After making the first cut, for safety reasons, it is recommended that you turn off the machine to make your adjustments, using the red OFF "0" button (Fig. 01 Part 03).

Once you have adjusted the pressure clamps and the stop, turn on the Saw again and make your first cut. Watch that the hold-down clamps are properly adjusted. Then stop, turn off the Saw and check that the length is correct.

Depending on the size of the moulding being cut, you may require a greater or lesser speed of descent of the blade. To adjust the speed of descent, you will use the knob that regulates the flow of compressed air, shown in Fig. 05 Part 02. For the descent to be faster, turn the knob anti-clockwise (to the left). To slow down the speed of descent, in order to cut larger profiles, turn the knob clockwise (to the right). But be careful: the speed of blade descent depends on the height and width of the profile, and the slower the descent, the better the quality of the cut. However, if the descent is too slow, the friction caused will heat the wood or plastic and "burn" it, giving it a dark tone.

To better see the functioning inside of the saw cabinet, your IM-300P Master has a light, that can be turned on with the switch shown on Fig. 05 Part 01.



8- CAUTION DURING OPERATION

When making his first cut, the operator should take care with regard to the adjustment of the moulding hold-down clamp, because if it is not holding the stick with sufficient pressure, the stick may be violently drawn into the interior of the machine by the blade's rotation, damaging the machine.

For your safety, the Saw is adjusted at the factory to only operate when the hood is in the lowered position.

9- SIZES OF MOULDINGS THAT CAN BE CUT

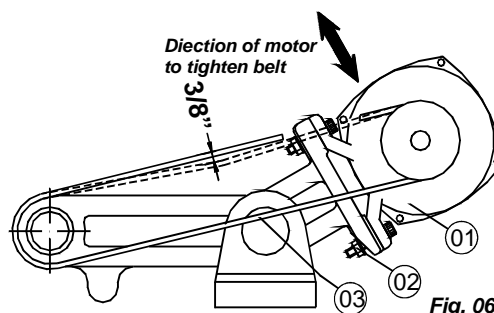
Your IM300P Master Double Miter Saw can cut mouldings with a maximum width of 3 1/8", and a maximum height of 3-1/8". **ATTENTION!** Any moulding profile that fits inside the limits on the graph in the diagram showing the cut parameters (Cut Capacity Diagram) can be cut. The red line represents the path that the blades' bushings follow as the blade descends.

10- BELT ADJUSTMENT

From time to time it may become necessary to tighten the belts (Fig. 06-03) that drive the blades.

To make this adjustment, use a 13-mm. wrench to loosen the four bolts (Fig. 06 Part 02). Then push the motor (Fig. 06 part 01) back to tension the belt to your satisfaction, and then tighten the bolts. The belt should not be too tight. It has the proper tension when the distance the belt moves, upon pushing against the middle of the belt with your finger, is about 3/8".

To put in a new belt, pull the motor forward to loosen the belt first.



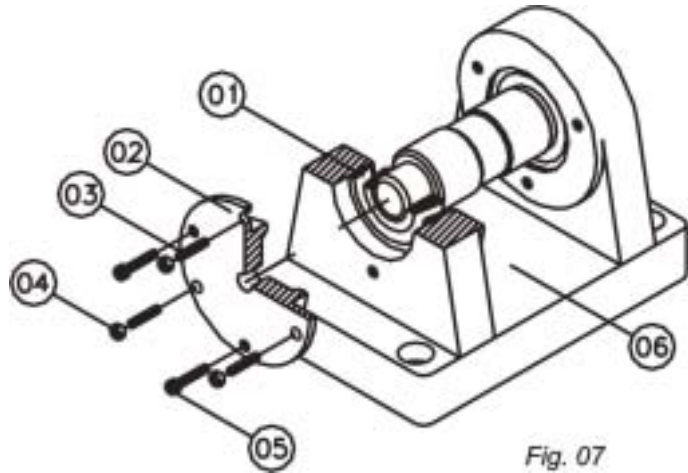
11- TIGHTENING THE SAW BLADE ARM

If the Saw blade arm shows signs of loosening, tighten it by adjusting the bearing caps of the arm joint (Fig. 07 Part 02).

As shown in Fig. 07, first loosen the three headless bolts (Fig. 07 Part 03) using a 2.5 mm. Allen wrench. (It is only necessary to loosen them a minimum amount.)

Then proceed to tighten the bolts with heads (Fig. 07 Part 05), still using the 2.5 mm Allen wrench, each a little at a time so that the cap remains in alignment with the shaft.

Finally, if the blade arm does not show any more play, retighten the headless bolts (Fig 07 Part 03), and secure them in place by tightening their locknuts. In this way more pressure is exerted against the bearing, eliminating the play.



Blade Direction



12- REMOVING BLADES - IMPORTANT!

When removing the saw blade to replace or sharpen it, care should be taken that the nut is rotated in the proper direction.

To loosen the blade, the nut is rotated towards the front of the machine, **in the same direction as the blade's rotation when cutting**. **To tighten the blade**, the nut is rotated towards the back of the machine, **in the opposite direction of the blade's rotation**. Insert a 6 mm. Allen wrench in the end of the blade shaft to hold it in place when loosening or tightening the nut that holds the blade in place.

Be careful not to mix up the nuts if both blades are removed at the same time. Trying to thread the wrong nut on the shaft will damage the threads.

13- MAINTENANCE

Taking a few preventive measures can help you avoid most maintenance problems:

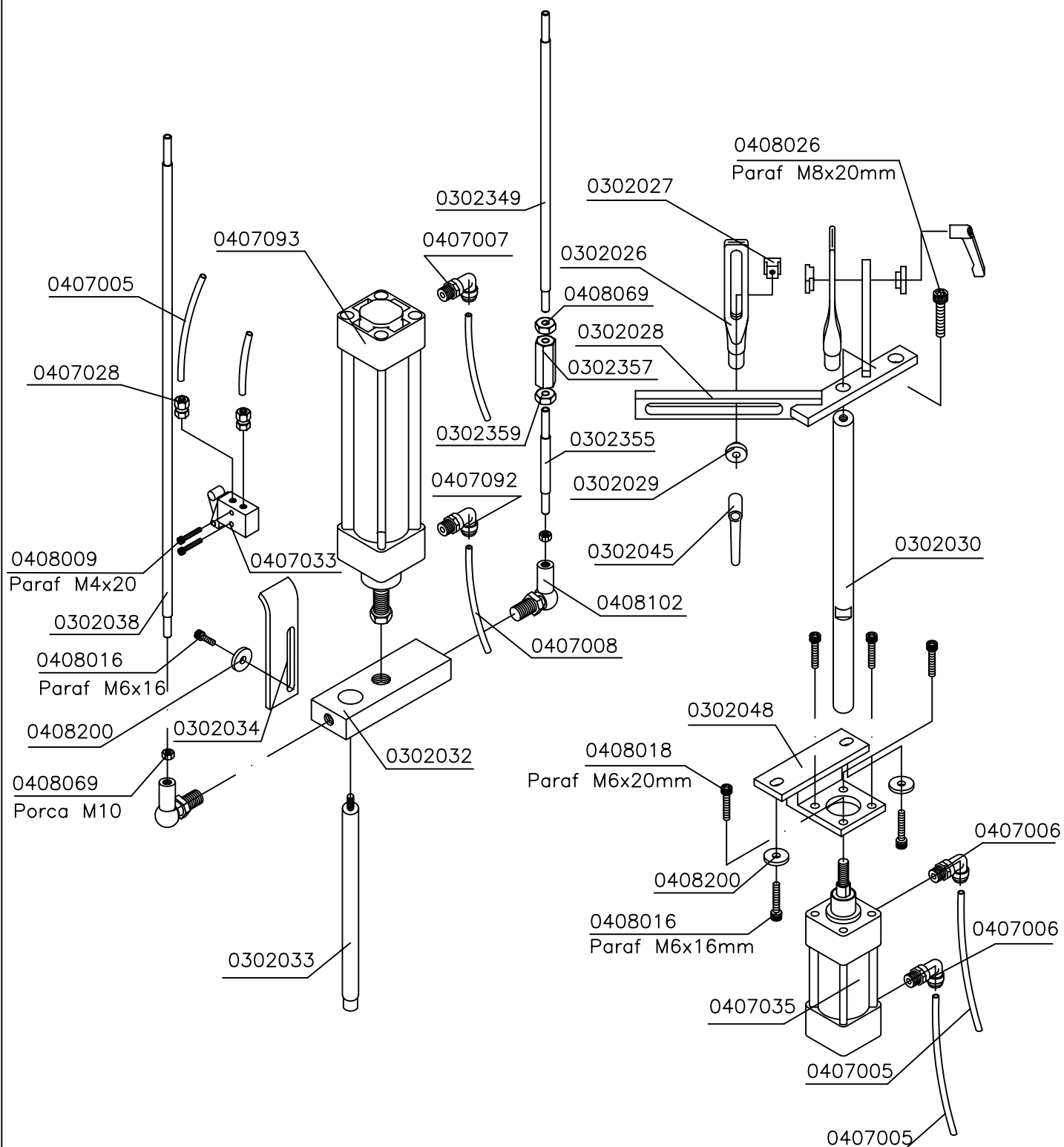
- Lubrication** – There are two grease jets on your saw, one on each of the saw blade arm joints. You should lubricate the bearings in the blade arms with a grease gun every two weeks.
- Compressed air** – Check several times during operation that the air pressure is within the limits specified in the manual.
- Cleaning** – Keep your saw clean. Blow the dust off of the machine regularly. It is recommended that you vacuum the control panel.
- General** – Upon receiving the saw, and on a regular basis, you should if all electrical connection screw are tightened, because the vibration during transport and operation can loosen them and this can damage some electrical components. You should occasionally check all of the bolts on your saw for tightness.

PARTS LIST FOR IM-300P MASTER DOUBLE MITER SAW

DENOMINAÇÃO	CÓDIGO	DENOMINAÇÃO	CÓDIGO
Saw	0205226	Label Emergency	0405048
Saw	0205246	Label	0405066
Washer	0301053	Label 208-230V	0405089
Pedal Cover Protection	0301070	Label 240V	0405117
Air Connection 1/4" AUS	0301401	Label	0405119
Right Moulding Fance	0302004	Foot Pedal - NJ 5103-5118-000	0407002
Left Molding Fance	0302005	Blue Tubing - PU6x1/3-50	0407005
Sawdust Catcher	0302006	Elbow Connection - C63PK6-1/8"	0407006
Molding Stop	0302007	Elbow Connection - C63PK6-1/4"	0407007
"Y" Conector For Dust Exhaust	0302008	Blue Tubing - PU4x0,75/3-50	0407008
"Y" Conector Without Exhaust	0302009	Air Connection Jet - 125 HBL 6-4	0407009
Blade Arm Shaft	0302016	Nut - 2569-18	0407012
Blade Arm Joint Cap – 3 Holes	0302017	Hose PVC 3"	0407020
Blade Arm Joint Cap – 3 Holes	0302018	Parker Mini Pressure Cunter - 6333-15	0407022
Pulley Washer	0302021	Hose PVC 4"	0407024
Left Saw Blade Nut	0302022	Regulator Valve - 5012-211	0407025
Pulley Trif	0302024	Connector - F28PB6-M5	0407028
Right Saw Blade Nut	0302023	Mini Refil Cup P3A-EA92BGBGNP	0407032
Saw Blade Flange	0302025	Pneumatic Valve M43303R	0407033
Moulding Clamp	0302026	Cylinder ISO D03220040000 X 25mm	0407035
Moulding Clamp Nut	0302027	Muffler 6301-2	0407039
Moulding Clamp Bracket	0302028	Bracket - 2569-19	0407040
Moulding Clamp Washer	0302029	Connector - F3PB4-1/4"	0407052
Moulding Clamp Shaft	0302030	Connector - F3PB6-1/4"	0407053
Course Guide Bar	0302032	Muffler - 6302-2	0407054
Course Guide	0302033	Parker Mini Lubrificater - P3A-LA92BNN	0407071
Pneumatic Valve Activator	0302034	Connector 90" - C63PK4-1/4"	0407092
Course Guide Shaft	0302037	Cylinder ISO - D05020140000 X 135mm	0407093
Drive Rod For Saw Arm	0302038	Tee Union JPK6	0407095
Body	0302039	ALLEN SCREW - M4X16MM	0408008
Front Plate	0302041	Allen Screw M4x20mm	0408009
Rod Lid	0302042	Allen Screw M5x08mm	0408012
Moulding Stop Bracket	0302044	Allen Screw M5x16mm	0408013
Adjustment Handle M45 M6x30 (Complete)	0302045	Allen Screw M6x16mm	0408016
Moulding Clamp Cylinder Support	0302048	Allen Screw M6x20mm	0408018
Hood	0302049	Allen Screw M6x25mm	0408019
Left Finishing Foil	0302050	Allen Screw M6x30mm	0408020
Right Finishing Foil	0302051	Allen Screw M8x30mm	0408028
Acrylic Window	0302053	Allen Screw M10x25mm	0408037
Right Saw Arm	0302057	Allen Screw M5x10mm	0408056
Left Replaceable Table Guide Plate	0302072	ALLEN SCREW – M6X16MM	0408058
Right Replaceable Table Guide Plate	0302073	Hex Nut M5	0408066
Cylinder Support	0302081	Hex Nut M6	0408067
Rubber Curtain Bracket	0302090	Hex Nut M8	0408068
Rubber Curtain	0302092	Hex Nut M10	0408069
Sensor Support	0302093	Allen Screw M6x10mm	0408089
Body Insert	0302095	Allen Screw. M8x20mm	0408090
Left Saw Arm	0302117	Allen Screw M5x16mm	0408092
Motor Polley Trif	0302140	Hex Bolt M16x50mm	0408095
Motor Polley Mono-Bif	0302148	Clamp - 70 / 89	0408100
Handle M45 M6x35 (Complete)	0302168	Clamp - 102 / 121	0408101
Right Saw Blade Shaft	0302182	Slip Joint Elbow	0408102
Right Saw Blade Shaft	0302014	Grease Jet M8x1 90°	0408103
Left Saw Blade Shaft	0302183	Allen Screw M6x16mm	0408105
Left Saw Blade Shaft	0302013	Allen Screw M5x35mm	0408114
Maintenance Door	0302185	Steel Rivet 3.2x10.2mm	0408144
Electric Panel Door	0302215	HEX NUT M16	0408149
Pulley	0302236	Hex Bolt M8x45mm	0408152
Right Saw Safet Plate	0302242	HEX NUT M6	0408177
Left Saw Safet Plate	0302243	HEX NUT M8	0408179
Rubber Curtain Support	0302245	Hex Bolt M8x40mm	0408185
Safety Plate Spacer	0302247	WASHER 1/4"	0408200
Safety Plate Washer	0302249	WASHER 3/16"	0408218
Left protection for drive belt	0302266	Nylon Wire Support Clamp	0412025
Right protection for drive belt	0302267	Lamp Base	0412035
Left protection for drive belt - support	0302269	Micro Switch - MG 2607 IR	0412038
Right protection for drive belt - support	0302270	Switch CS 301 D	0412039
Drive belt protection – bushing	0302272	Crosser Wire 3/4"	0412051
Safety plate – support	0302274	Hose Pvc 1"	0412138
Safety plate – support	0302276	TRIPOLAR FRONTAL 50A 5TW 3050-1	0412148
Moulding Guide Lock	0302342	Emergency Switch – 1201 0039	0412248
Right Drive Rod IM-300P	0302349	Switch Box – On/Off	0412257
Drive Rod to adjust the blades	0302355	Motor – 1,5HP 220/380V 2P80 B3D 50HZ	0413002
Drive Rod – adjuster	0302357	Motor – 1,5HP 220/380V 2P80 B3E 50HZ	0413004
Left Hex Nut M10	0302359	Motor - 1,5HP 115/208-230 2PD 56 B3D	0413019
Nylon Insert Support Im-300P/Pl	0302362	Motor - 1,5HP 115/208-230 2PD 56 B3E	0413021
Sawdust catcher IM-300P – right protection	0302363	Motor - 1,5CV 240V 2PD56 B3D 50HZ	0413103
Sawdust catcher IM-300P – left protection	0302364	Motor - 1,5CV 240V 2PD56 B3E 50HZ	0413104
Sawdust catcher IM-300P – protection	0302365	Belt Z-0900mm GOODYEAR	0414007
Blade Right Arm Joint Base	0302404	Butterfly Handle M6x20mm MPLG-BRPT	0415003
Blade Left Arm Joint Base	0302405	Hood Handles - 19,50mm	0415005
Bearing 6204 DDU ARZ S1	0404005	Hood Handles - 25mm	0415006
Bearing 6205 DDU ARZ S1	0404006	Hing - 42mm	0415007
Conical Bearing GPZ 30204	0404007	Perfil Y	0417017
Label 380V 50Hz	0405017	Bushing - PAP 2015 P10	0417019
Label Stop	0405019	Cotter 6x6x14mm T-A	0417029
Label IM-300P	0405023	Stop Shock Sj-5018 Black	0419018

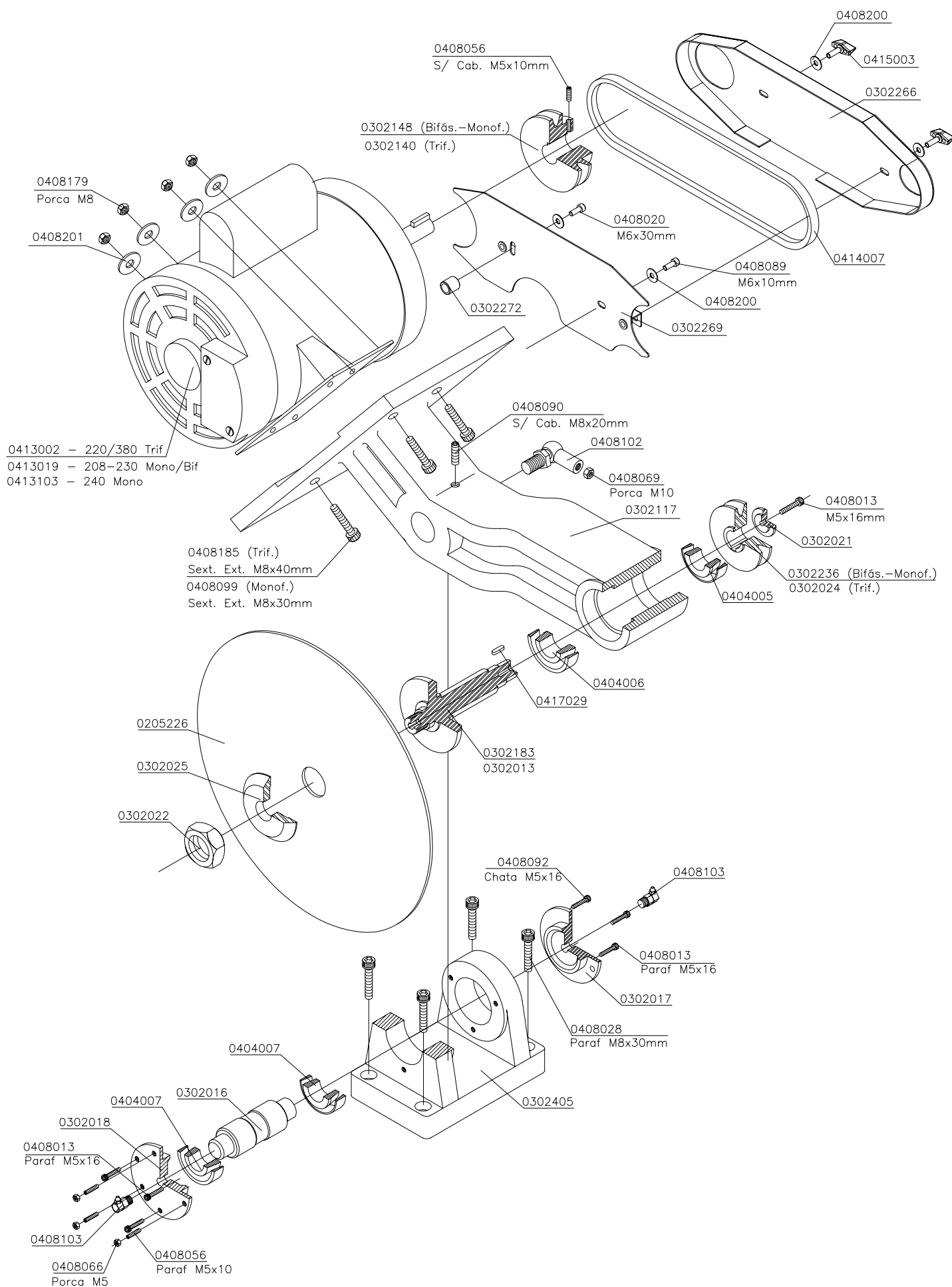
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<i>Label Caution</i>	0405026	<i>CLOSING RIBBON</i>	0419073
<i>Label</i>	0405034	<i>Right Calibrated Rule Sticher –IM-300/P</i>	0419076
<i>Label</i>	0405041	<i>Left Calibrated Rule Sticher –Im-300/P</i>	0419078
<i>Eletric Label</i>	0405042	<i>Label</i>	0504015
<i>Label</i>	0405045		



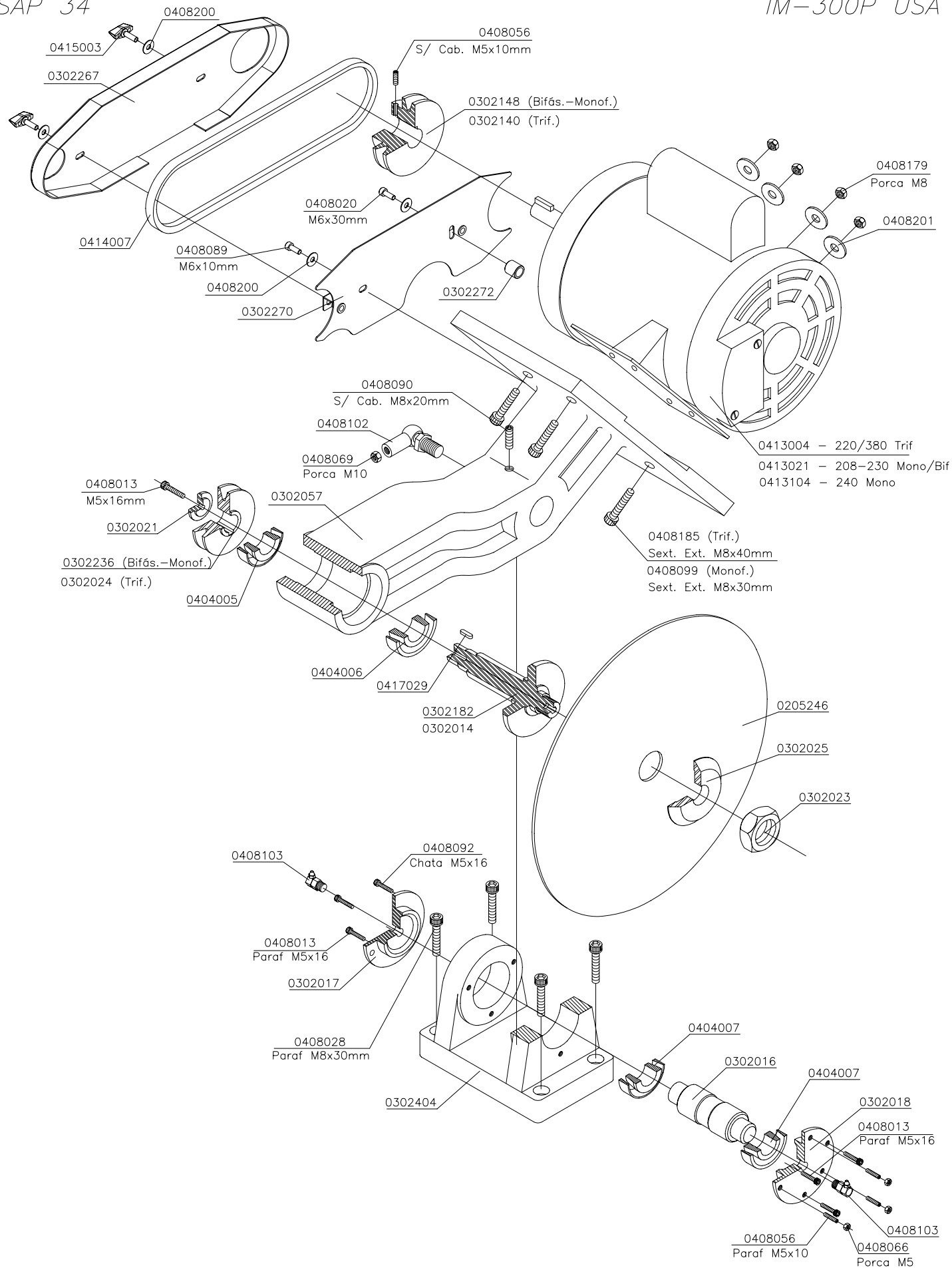


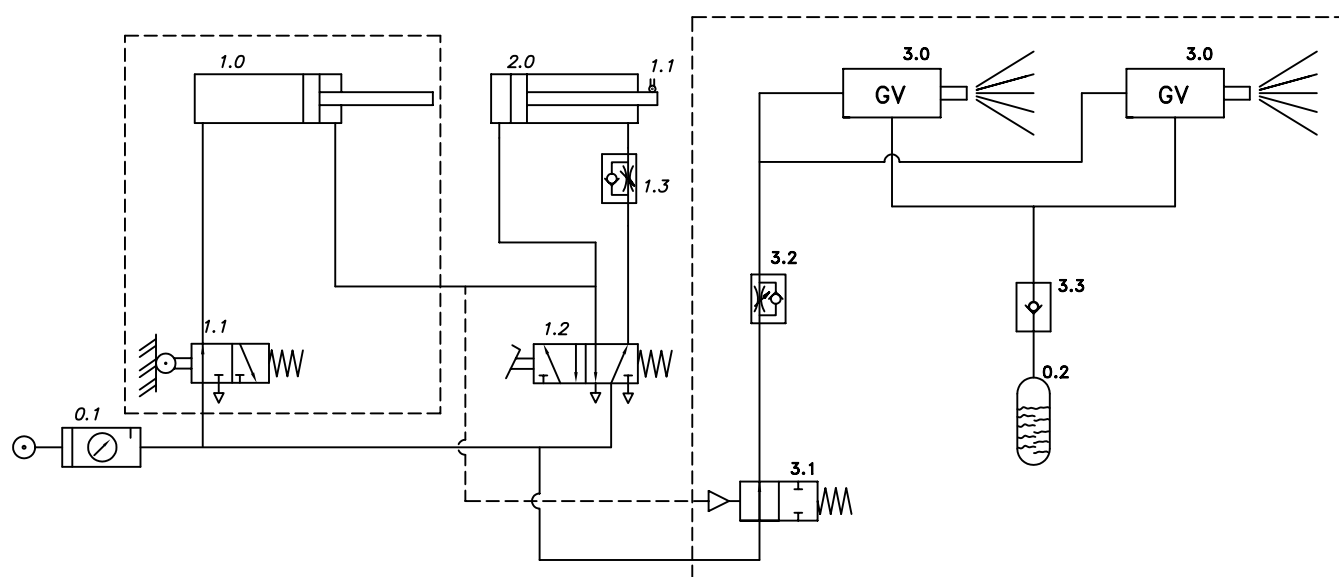
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0302027	0407006
0302026	0407035
0302028	0407005
0302029	0302048
0302045	0302034
0302030	0408200
0408018	0408013
0407033	0302093
0408009	
0408016	



Saw Assembly - Left Side

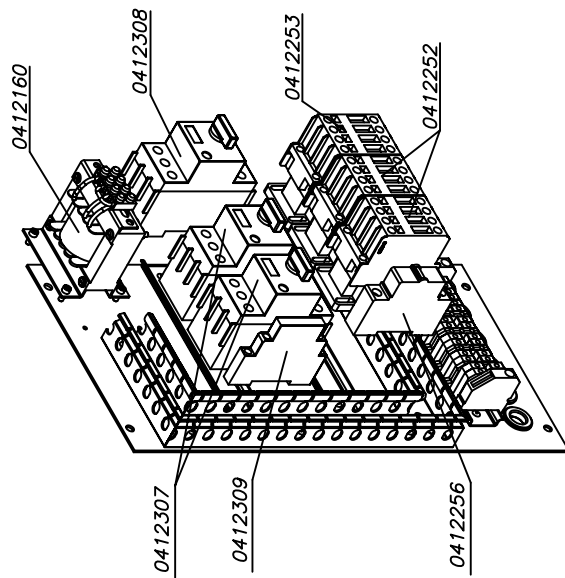
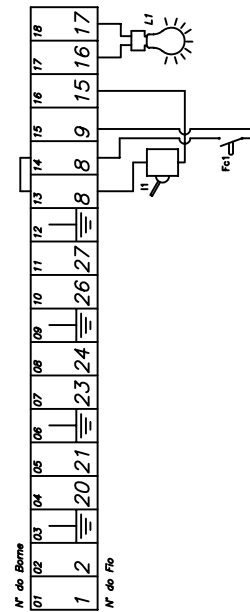
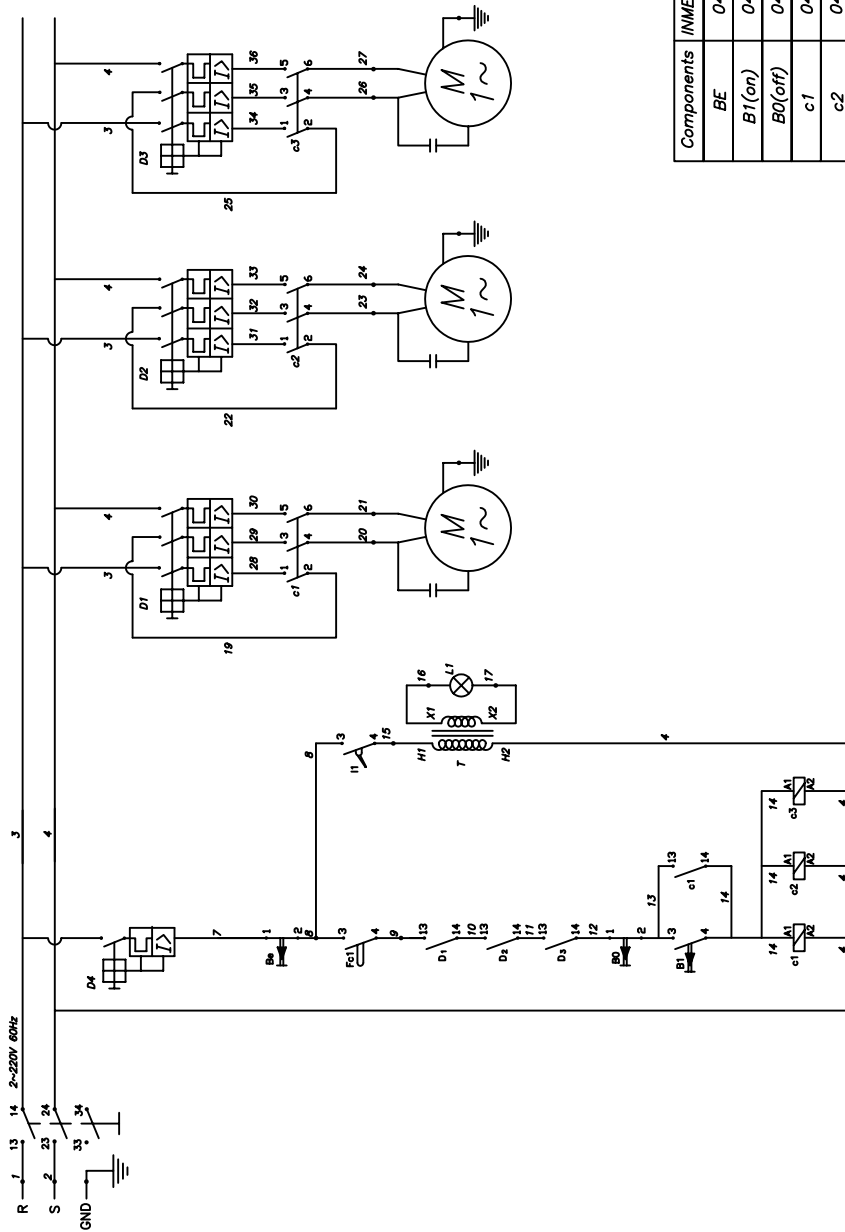




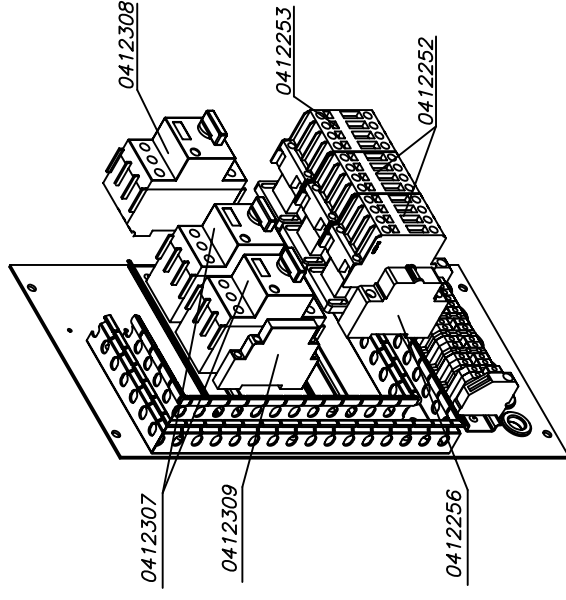
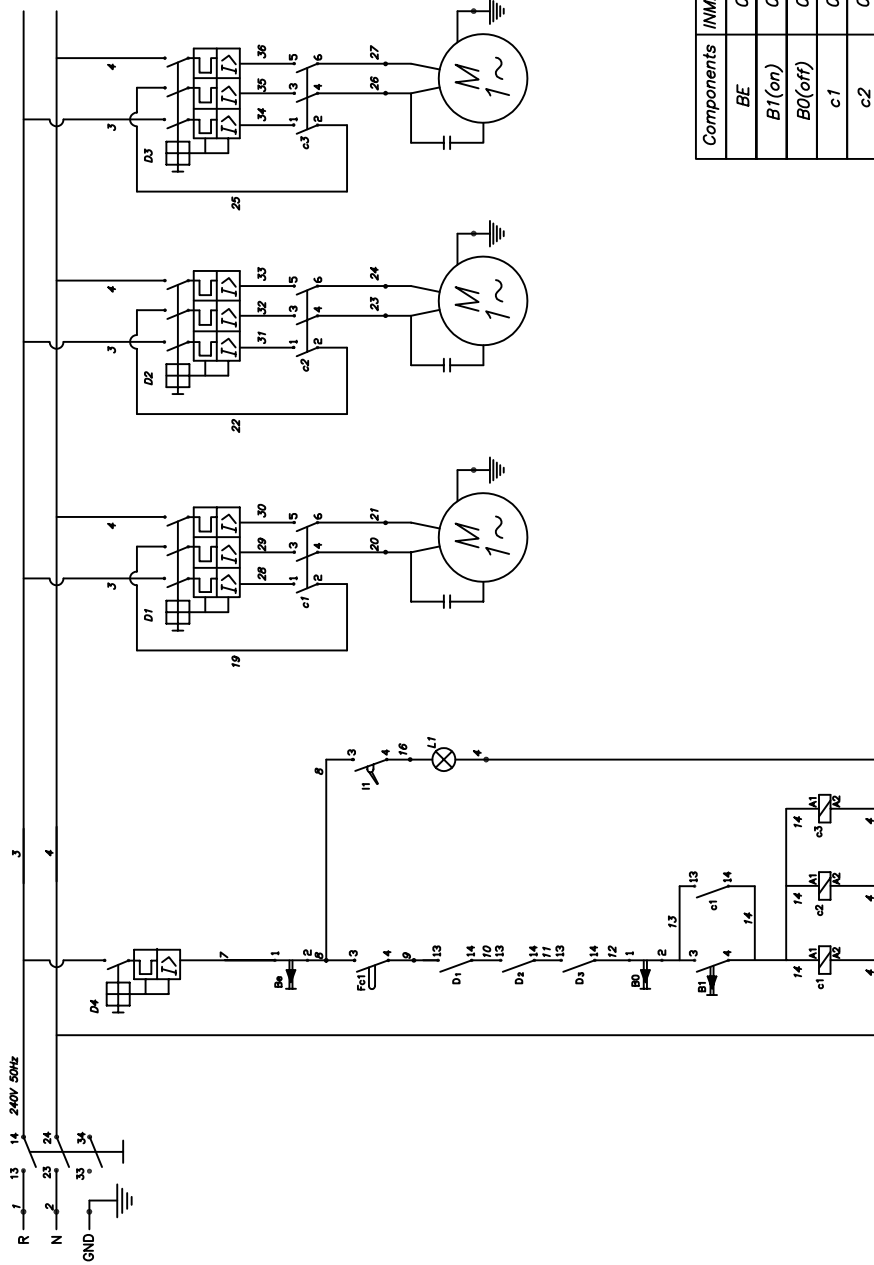
Componentes

- 1.0 -> Cylinder ISO - D03220040000 x 25mm
- 2.0 -> Cylinder ISO - D05020140000 x 135mm
- 1.1 -> Pneumatic valve - M43303R
- 1.2 -> Foot pedal - NI 5103-5118-00
- 1.3 -> Valve regulator of outlet
- 0.1 -> Air filter regulator
- 3.0 -> Vacuun Gerator
- 3.1 -> Pilot valve
- 3.2 -> Valve regulator of outlet
- 3.3 -> Retention valve
- 0.2 -> Cut liquid reservoir

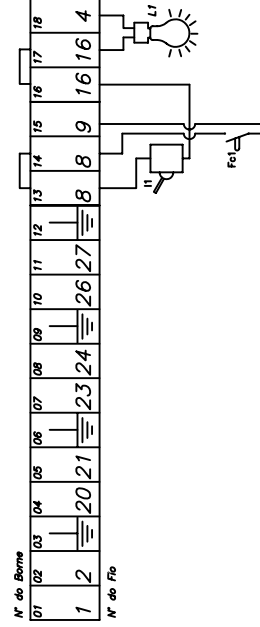
*OBS => The Elements Between the Traced Lines are Optional

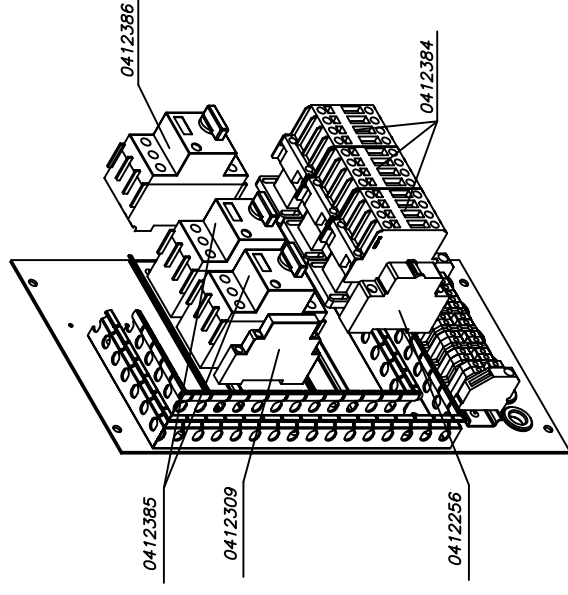
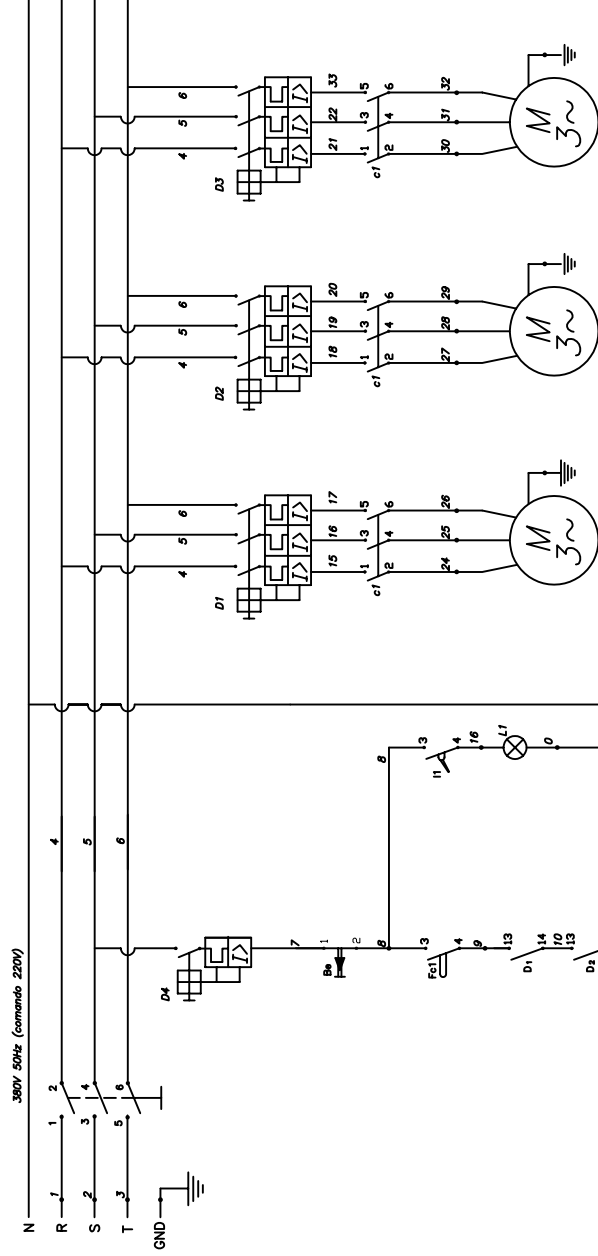


Components	INMES Code	Designation
BE	0412248	Emergency Switch 1201 0036
B1(on)	0412257	Double Command Switch 1201 0060
B0(off)	0412257	Double Command Switch 1201 0060
c1	0412252	Contact CWM 18.10 220V 50-60Hz
c2	0412252	Contact CWM 18.10 220V 50-60Hz
c3	0412253	Contact CWM 9.10 220V 50-60Hz
D1	0412307	Motor Cut-Out MPW25-10 6,3+10A (035500963)
D2	0412307	Motor Cut-Out MPW25-10 6,3+10A (035500963)
D3	0412308	Motor Cut-Out MPW25-6,3 4-6,3A (035500962)
D4	0412256	Thermomagnetic Cut-Out 5SX1 104-7
Fc1	0412038	Switch MG 2607 IR Micro
I1	0412039	Switch CS 301 D
L1	0412137	Lamp 60W 120V
T	0412160	Transformer 220-110V
	0412309	Block External Contact ACBS-11 1NA/F (035500961)

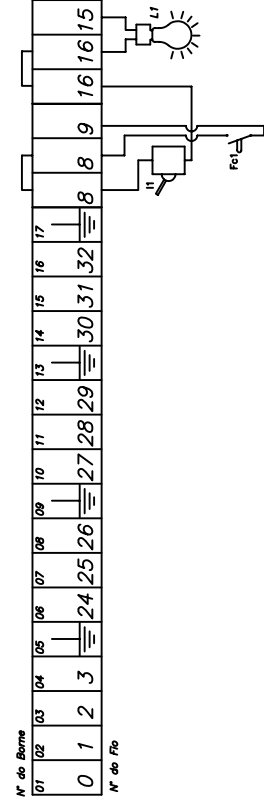


Components	INMES Code	Designation
BE	0412248	Emergency Switch 1201 0036
B1(on)	0412257	Double Command Switch 1201 0060
B0(off)	0412257	Double Command Switch 1201 0060
c1	0412252	Contacteur CWM 18.10 220V 50-60Hz
c2	0412252	Contacteur CWM 18.10 220V 50-60Hz
c3	0412253	Contacteur CWM 9.10 220V 50-60Hz
D1	0412307	Motor Cut-Out MPW25-10 6,3+10A (035500963)
D2	0412307	Motor Cut-Out MPW25-10 6,3+10A (035500963)
D3	0412308	Motor Cut-Out MPW25-6,3 4-6,3A (035500962)
D4	0412256	Thermomagnetic Cut-Out 5SX1 104-7
Fc1	0412038	Switch MG 2607 IR Micro
I1	0412039	Switch CS 301 D
L1	0412137	Lamp 60W 120V
	0412309	Block External Contact ACBS-11 1NA/F (035500961)





Components	INMES Code	Designation
BE	0412248	Emergency Switch 1201 0036
B1(on)	0412257	Double Command Switch 1201 0060
B0(off)	0412257	Double Command Switch 1201 0060
c1	0412384	Contact MINI CW 07.10 -7A 380V - 220V/50-60Hz
c2	0412384	Contact MINI CW 07.10 -7A 380V - 220V/50-60Hz
c3	0412384	Contact MINI CW 07.10 -7A 380V - 220V/50-60Hz
D1	0412385	Motor Cut-Out MPW 25-4,0 2,5-4A
D2	0412385	Motor Cut-Out MPW 25-4,0 2,5-4A
D3	0412386	Motor Cut-Out MPW 25-2,5 1,6-2,5A
D4	0412256	Thermomagnetic Cut-Out MONOPOLAR MBW-C6
Fc1	0412038	Switch MG 2607 IR Micro
I1	0412039	Switch CS 301 D
L1	0412360	Lamp 3U 15W 220V
	0412309	Block External Contact ACBS-11 1NA/F (035500961)





Manual de Instalação e Manutenção Installation and Maintenance Bulletin

B3-3-880
Filtro/Regulador Mini
Mini Filter/Regulator

Apresentação

Filtro/Regulador é a combinação do Filtro com Regulador de Pressão. O Filtro/Regulador tem por função filtrar e regular o ar para a pressão desejada com a mesma eficiência obtida pelos Filtro e Regulador separados.

Presentation

The Filter-Regulator is a combination of the Filter with the Pressure Regulator. The function of the Filter-Regulator is to filter and regulate air to the required pressure with the same efficiency as that of the Filter and Regulator, separately.



Características Técnicas

- Conexões: 1/8" e 1/4"
- Tipo da Rosca: NPT ou BSP
- Material do Copo: Policarbonato
- Elemento Filtrante: 5µ ou 40µ
- Tipo de Dreno: Manual ou Automático
- Temperatura de Trabalho: -10°C a +50°C (14°F to 122°F)
- Pressão Máxima na Entrada: 10 bar (150 psig)
- Pressão Secundária: 0 a 2 bar (0 a 30 psig)
0 a 4 bar (0 a 60 psig)
0 a 8 bar (0 a 90 psig)
- Vazão Máx. à 7 bar na entrada: 14 dm³/s (Exceto para bitolas de 1/8" e para pressão de 0 a 2 bar, onde a vazão máxima será de 10 dm³/s).
- Peso: 0,115 kg

Technical Information

- Ports Sizes: 1/8" and 1/4"
- Type of Thread: NPT or BSP
- Bowl Material: Polycarbonate
- Filtering Element: 5µ or 40µ
- Type of Drain: Manual or Automatic
- Temperature Range: -10°C to +50°C (14°F to 122°F)
- Max. Inlet Pressure: 10 bar (150 psig)
- Secondary Pressure: 0 to 2 bar (0 to 30 psig)
0 to 4 bar (0 to 60 psig)
0 to 8 bar (0 to 90 psig)
- Maximum Flow at 7 bar at Inlet: 14 dm³/s (Except for 1/8" size and for pressure from 0 to 2 bar, where maximum flow will be 10 dm³/s).
- Weight: 0,115 kg

Recomendações

Aplique graxa de silicone ou vaselina em todas as guarnições:

- Limpe as peças com água e sabão neutro;
- Não utilize panos, estopas ou similares na secagem das peças.
- Não instale o Filtro/Regulador em locais que possam expor o copo aos seguintes elementos:

- Solventes em geral
- Óleo de mamona
- Óleos compressores
- Álcool etílico
- Vapores quentes
- Álcool metílico
- Gasolina
- Verniz

"Não Use Álcool para Limpar"

Warning

- Apply silicone grease or vaseline in all seals;
 - Clean parts with water and neutral soap;
 - Do not use cloth or rags to dry parts;
 - Use clean air to prevent tube clogging;
 - Do not install Filter-Regulator where bowl may be exposed to the following elements:
 - Solvents in general
 - Castor-oil
 - Compressive oils
 - Ethylic Alcohol
 - Hot steam
 - Methylic Alcohol
 - Gasoline
 - Varnish
- "Don't Use Alcohol to Clean"

Estocagem

Os produtos deverão permanecer embalados enquanto estiverem estocados. O ambiente de armazenamento deve ser seco, limpo, arejado e isento de produtos químicos ou elementos que possam atacar o material do produto. Na estocagem do Filtro/Regulador, certifique-se de que a manopla esteja livre, ou seja, não tensionando a mola interna.

Storing

Products should be kept packed while stored. Storing area should be dry clean, entilated and free from chemical products or elements which may attack product material. When storing Filter-Regulator, be sure that control knob is free, i.e., not compressing internal spring.

Instalação

Procedimento para instalação:

- Retire os tampões das roscas.
- Instale o Filtro/Regulador na direção indicada, com o copo para baixo.
- Libere a rosca do corpo do regulador e introduza o manômetro, apertando-o.
- Suspenda a manopla para liberar o controle, girando-a no sentido anti-horário até que a mola de pressão esteja livre de compressão.
- Ligue o suprimento de ar.
- Gire a manopla no sentido horário para ajuste do nível de pressão, que pode ser com ou sem fluxo de ar. Ajustada a pressão, empurre a manopla, travando-a.
- Para reduzir a pressão; destrave e gire o controle da manopla no sentido anti-horário, até que esteja abaixo do novo nível desejado. Então, ajuste a pressão e trave a manopla.

Installation

Procedure for installation:

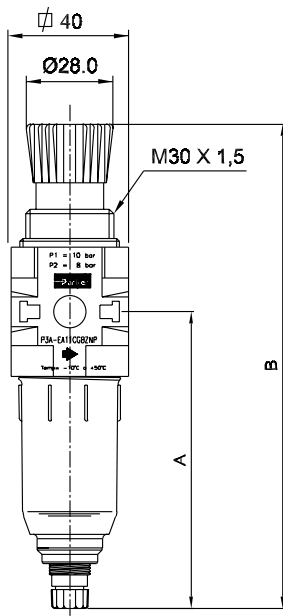
- Remove thread caps.
- Install Filter-Regulator in the indicated direction with bowl downwards.
- Release thread of regulator body and introduce gauge, tightening it.
- Lift knob to release control, turning it counter-clockwise until pressure spring is free from compression.
- Turn on air supply.
- Turn control knob clockwise to regulate pressure level, which can be with or without air flow. With pressure adjusted, push control knob to lock it.
- To reduce pressure, unlock and turn knob counter-clockwise until it is below the new desired level. Then, adjust pressure control knob to lock it.



Manual de Instalação e Manutenção Installation and Maintenance Bulletin

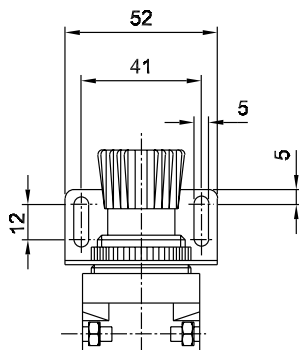
B3-3-880
Filtro/Regulador Mini
Mini Filter/Regulator

Dimensões/Dimensions



Versão/Version	A	B
Com Dreno Manual With Manual Drain and Short Bowl	101	165
Com Dreno Manual e Copo Longo With Manual Drain and Long Bowl	125	188
Com Dreno Semi-Automático (Filtro) With Semi Auto-Drain (Filter)	94	158

Dimensões em mm
Dimensions in mm



Fixação do Conjunto

Filtro/Regulador ao Lubrificador

Sem Suporte: Kit P3A-KA00CDN

Com Suporte: Kit P3A-KA00CDN + P3A-KA00CWN

Mounting

Filter/Regulator to Lubrificador

Without Mounting Bracket: Kit P3A-KA00CDN

With Mounting Bracket: Kit P3A-KA00CDN + P3A-KA00CWN

Fixação do Filtro/Regulador

Fixação com Suporte Pescoço

Kit com Porca Metálica: P3A-KA00MSN

Kit com Porca Plástica: P3A-KA00MRN

Filter/Regulator Mounting

Mounting with "Neck" Ring Bracket

Kit with Metal Nut: P3A-KA00MSN

Kit with Plastic Nut: P3A-KA00MRN

Fixação Unitária do Filtro/Regulador

Suporte para Parede: Kit P3A-KA00CWN

Porca Metálica para Pannel: Kit P3A-KA00MMN

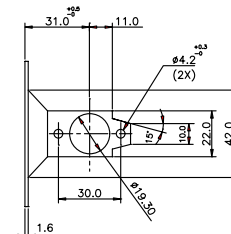
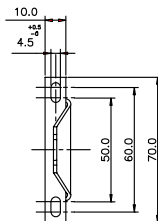
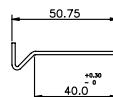
Porca Plástica para Pannel: Kit P3A-KA00MPN

Filter/Regulator Unit Mounting

Wall Mounting Bracket: Kit P3A-KA00CWN

Metal Nut for Panel: Kit P3A-KA00MMN

Plastic Nut for Panel: Kit P3A-KA00MPN





Manual de Instalação e Manutenção Installation and Maintenance Bulletin

B3-3-880
Filtro/Regulador Mini
Mini Filter/Regulator

Manutenção

Para bom e permanente desempenho deste produto, ele deve sofrer limpezas periódicas e manutenção preventiva. Proceda com segue:

Maintenance

To get good and permant performance of this product, it needs periodical cleaning and preventive maintenance. Proceed as follows:

1. Feche o suprimento de ar
Shut air supply
2. Descarregue o circuito (Figs. 1 e 2)
Unload circuit (Figs. 1 and 2)
3. Abra o dreno (Fig. 3)
Open drain (Fig. 3)
4. Retire o manômetro (Basta desrosqueá-lo)
Remove gauge (unscrew)
5. Desmonte o refil (Figs. 4, 5 e 6)
Disassemble Filter-Regulator (Figs. 4, 5 and 6)
6. Lave as peças com água e sabão neutro
Wash parts with water and neutral soap
7. Seque somente com ar comprimido
Dry with compressed air only
8. Troque as peças integrantes do kit de reparo
Change parts which make up Repair Kit
9. Remonte o refil (siga o processo inverso ao item 5)
Re-assemble Filter-Regulator (follow reverse order as shown in item 5)
10. Recoloque o manômetro
Replace gauge
11. Feche o dreno
Close drain
12. Ligue o suprimento de ar
Turn on air supply
13. Regule a pressão e trave a manopla (Figs. 7 e 8)
Adjust pressure and lock control knob (Figs. 7 and 8)
14. Teste
Test

- Para filtro com dreno automático, não considere os itens 3 e 11.
- *For filter with auto drain, don't consider items 3 and 11.*

Fig. 1

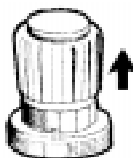


Fig. 2



- Abra o dreno, girando-o no sentido da seta.
- *Open drain, turning it according to arrow direction.*

Fig. 3



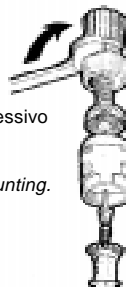
Fig. 4



Fig. 5



Fig. 6

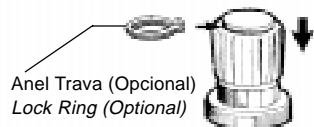


- Evite torque excessivo na fixação.
- *Avoid excessive torque when mounting.*

Fig. 7



Fig. 8





Manual de Instalação e Manutenção Installation and Maintenance Bulletin

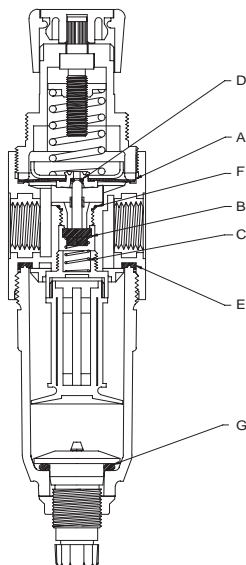
B3-3-880
Filtro/Regulador Mini
Mini Filter/Regulator

Kit de Reparo

Filtro/Regulador com Sangria: Ref.: P3A-KA00RE
Filtro/Regulador sem Sangria: Ref.: P3A-KA00RG

Repair Kit

- Relieving Filtro/Regulator: Part n°: P3A-KA00RE
- Non Relieving Filter/Regulator: Part n°: P3A-KA00RG



Referências/Part Numbers

Item	Qtde./Qty.	Descrição/Description		Referência/Part N°
A	01	Conj. Diafragma Diaphragm Assembly	Sem sangria Non relieving	1569-300
			Com sangria Relieving	1569B-300
B	01	Conjunto Haste e Assento Stem and Seat Assembly		1569-500
C	01	Mola/Spring		1569-5
*D	01	Anel "O"/"O" Ring		2709-X
E	01	Guarnição Chata/Flat Seal		1539-2
F	01	Anel "O"/"O" Ring		1569-6
G	01	Anel "O"/"O" Ring		1901-0015

* Somente para refil com sangria/* Only for relieving Filter-Regulator

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Manual de Instalação e Manutenção Installation and Maintenance Bulletin

B3-3-882
Lubrificador Mini
Mini Lubrifier



Apresentação

Os equipamentos pneumáticos devem ser lubrificados convenientemente por meio do próprio ar comprimido para diminuir os efeitos desgastantes, as forças de atritos e facilitar os movimentos.

O Lubrificador é utilizado para lubrificação das partes mecânicas internas móveis que estão em contato direto com o ar. Esta deve ser efetuada de forma controlada para não causar obstruções na passagem de ar.

O Lubrificador faz com que o lubrificante seja nebulizado na corrente de ar e chegue a todos os componentes de instalação.

Presentation

Pneumatic equipment has to be properly lubricated with compressed air to reduce waste, friction and facilitate movement.

The lubricator is used to lubricate moving internal mechanical parts which are in direct contact with air. It has to be controlled in order to avoid obstruction to the air flow.

The lubricator ensures that lubricant is nebulized in the air flow and reach all components in the installation.

Características Técnicas

- | | |
|------------------------------|--------------------------------|
| - Conexões: | 1/8" e 1/4" |
| - Tipo da Rosca: | NPT ou BSP |
| - Tipo de Dreno: | Manual |
| - Material do Copo: | Polycarbonato |
| - Temperatura de Trabalho: | -10°C a +50°C (14°F to 122°F) |
| - Pressão Máxima na Entrada: | 10 bar (150 psig) |
| - Vazão Máxima: | Ø 1/8" - 13 dm ³ /s |
| (à 7 bar na Entrada) | Ø 1/4" - 18 dm ³ /s |
| - Óleo Recomendado: | ISO VG 10 |
| - Peso: | 0,08 kg |

Technical Characteristics

- | | |
|--------------------------------|--------------------------------|
| - Ports Sizes: | 1/8" and 1/4" |
| - Type of Thread: | NPT or BSP |
| - Type of Drain: | Manual |
| - Bowl Material: | Polycarbonate |
| - Temperature Range: | -10°C to +50°C (14°F to 122°F) |
| - Max. Inlet Pressure: | 10 bar (150 psig) |
| - Max. Flow at 7 bar at Inlet: | Ø 1/8" - 13 dm ³ /s |
| | Ø 1/4" - 18 dm ³ /s |
| - Recommended Oil: | ISO VG 10 |
| - Weight: | 0,08 kg |

Recomendações

- Utilize sempre óleo e ar limpos;
- Mantenha o lubrificador sempre abastecido;
- Na limpeza das peças, utilize apenas água e sabão neutro;
- Não use panos, estopas ou similares na secagem das peças.

Warning

- Always use clean oil and clean air.
- Keep Lubrifier always filled up.
- Use only water and neutral soap to clean parts.
- Do not use cloth or rags to dry parts.

Estocagem

Os produtos deverão permanecer embalados enquanto estiverem estocados.

O ambiente de armazenagem deve ser seco, limpo, arejado e isento de produtos químicos ou elementos que possam atacar o material do produto.

Storing

Products should be kept packed while stored. Storing area should be dry clean, ventilated and free from chemical products or elements which may attack product material.

Instalação

Procedimento para instalação:

- Retire os protetores, instale o copo para baixo na direção indicada no corpo do lubrificador e, se possível, acima e bem próximo ao equipamento a ser lubrificado;
- Retire o copo, abasteça-o e rosqueie-o novamente;
- Ligue o suprimento de ar;
- Ajuste a manopla reguladora de óleo (não aperte excessivamente). A regulação pode ser vista pelo regulador transparente.

Installation

Procedure for installation:

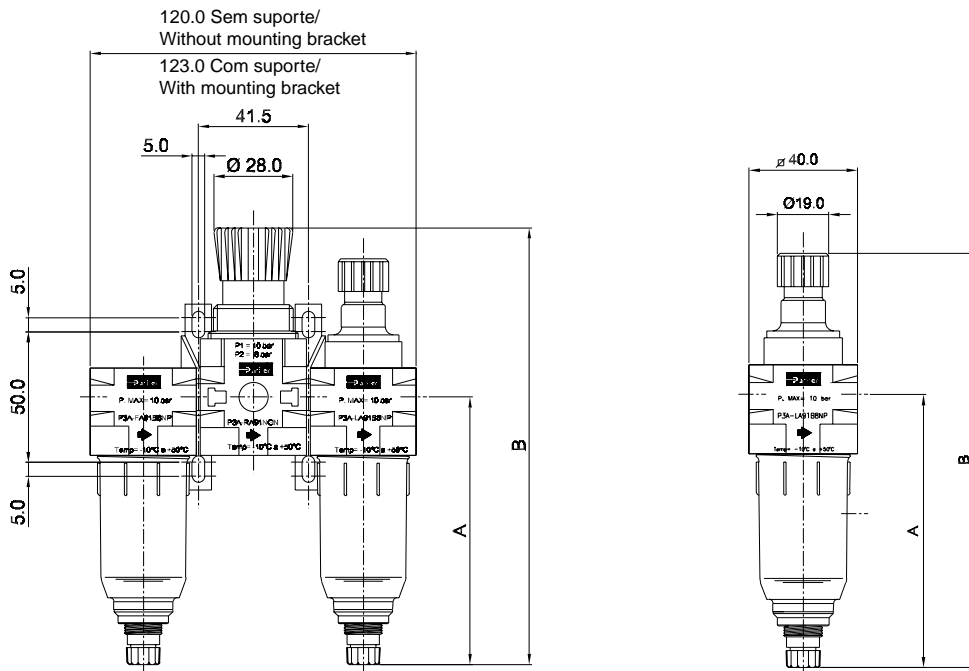
- Remove protecting caps and install bowl in the direction indicated in the body of Lubrifier and, if possible, above and close to the equipment to be lubricated.
- Remove bowl, fill it up and screw it again.
- Turn on air supply.
- Adjust oil control knob (do not tight it too hard). Regulation can be seen through sight dome.



Manual de Instalação e Manutenção Installation and Maintenance Bulletin

B3-3-882
Lubrificador Mini
Mini Lubrificator

Dimensões/Dimensions



Versão/Version	A	B
Com Dreno Manual With Manual Drain and Short Bowl	101	165
Com Dreno Manual e Copo Longo With Manual Drain and Long Bowl	125	188
Com Dreno Semi-Automático (Filtro) With Semi Auto-Drain (Filter)	94	158

Dimensões em mm
Dimensions in mm

Versão/Version	A	B
Com Dreno Manual With Manual Drain and Short Bowl	101	153
Com Dreno Manual e Copo Longo With Manual Drain and Long Bowl	125	177
Sem Dreno Without Drain and Short Bowl	88,5	140
Sem Dreno e Copo Longo Without Manual Drain and Long Bowl	112,5	165

Dimensões em mm
Dimensions in mm

Fixação do Conjunto

Lubrificador ao Regulador ou ao Filtro/Regulador
Sem Suporte: Kit P3A-KA00CDN
Com Suporte: Kit P3A-KA00CDN + P3A-KA00CWN

Lubrificador ao Filtro
Sem Suporte: Kit P3A-KA00CEN
Com Suporte: Kit P3A-KA00CEN + P3A-KA00CWN

Mounting

Lubrificador to Regulator or to Filter-Regulator
Without Mounting Bracket: Kit P3A-KA00CDN
With Mounting Bracket: Kit P3A-KA00CDN + P3A-KA00CWN

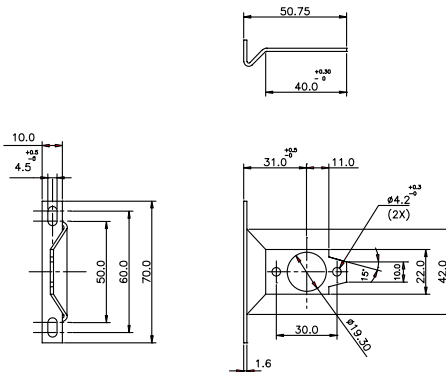
Lubrificador to Filter
Without Mounting Bracket: Kit P3A-KA00CEN
With Mounting Bracket: Kit P3A-KA00CEN + P3A-KA00CWN

Fixação Unitária do Lubrificador

Suporte de Parede: Kit P3A-KA00CWN

Lubrificador Unit Mounting

Wall Mounting Bracket: kit P3A-KA00CWN



Manutenção

Para bom e permanente desempenho deste produto, ele deve sofrer manutenções periódicas.

Proceda como segue:

Maintenance

To get good and permant performance of this product, it needs periodical maintenance.

Proceed as follows:

1. Feche o suprimento de ar da linha
Shut air supply
2. Remova o copo (Fig. 1)
Remove bowl (Fig. 1)
3. Lave com água e sabão neutro
Wash it with water and neutral soap
4. Seque o copo somente com ar comprimido
Dry bowl with compressed air only
5. Abasteça, até o nível máximo, com óleo ISO VG 10 (Fig. 2)
Fill it up to the maximum level, with ISO VG 10 oil (Fig. 2)
6. Troque as vedações
Change seals
7. Recoloque o copo
Replace bowl
8. Religue o suprimento de ar
Turn on air supply
9. Regule o fluxo de óleo para 2 a 3 gotas/min. (Fig. 3)
Adjust oil flow to 2 to 3 drops/min. (Fig. 3)
10. Teste
Test

Fig. 1



Fig. 2

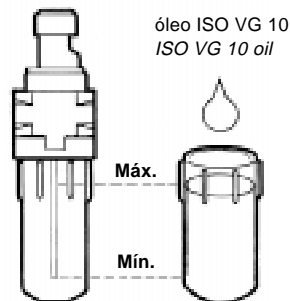


Fig. 3





Manual de Instalação e Manutenção Installation and Maintenance Bulletin

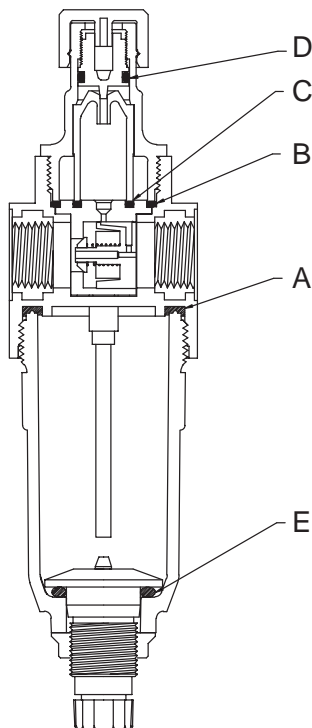
B3-3-882
Lubrificador Mini
Mini Lubrificador

Kit de Reparo

Ref. P3A-KA00RL

Repair Kit

Part nº P3A-KA00RL



Referências/Parts Numbers

Item	Qtde./Qty.	Descrição/Description	Referência/Part Nº
A	01	Guarnição Chata/Flat Seal	1539-2
B	01	"O" Ring/"O" Ring	3454-6
C	01	"O" Ring/"O" Ring	2709-7
D	01	"O" Ring/"O" Ring	2709-6
E	01	"O" Ring/"O" Ring	1901-0015

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